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PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM

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Total Number of Pages in This Submission

Application Number	10/648,052
Filing Date	August 26, 2003
First Named Inventor	Orlando Auciello
Art Unit	1754
Examiner Name	Colleen P. Cooke
Attorney Docket Number	ANL 273

ENCLOSURES (Check all that apply)

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| <input checked="" type="checkbox"/> Fee Transmittal Form
<input checked="" type="checkbox"/> Fee Attached
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<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)
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Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	EMRICH & DITHMAR, LLC.		
Signature			
Printed name	HARRY M. LEVY		
Date	8/18/05	Reg. No.	24248

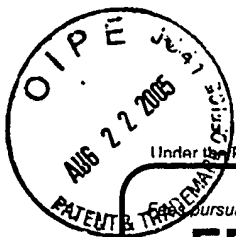
CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

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Typed or printed name	Brenda Starks	Date	8/19/05

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (12-04v2)

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Effective on 12/08/2004.

Pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2005

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete if Known

Application Number	10/648,052
Filing Date	August 26, 2003
First Named Inventor	U. Balachandran et al.
Examiner Name	Colleen P. Cooke
Art Unit	1754
Attorney Docket No.	ANL 273

METHOD OF PAYMENT (check all that apply)☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____☒ Deposit Account Deposit Account Number: 05-1060 Deposit Account Name: Emrich & Dithmar LLC.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

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FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims
- 20 or HP =	x	=		Fee (\$)

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
- 3 or HP =	x	=	

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number) x	=	0

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): IDS filing fee; return receipt postcard

Fees Paid (\$)

180.000

SUBMITTED BY

Signature

Registration No.
(Attorney/Agent) 24,248

Telephone 312-663-9800

Name (Print/Type) HARRY M. LEVY

Date 8/18/05

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : U. Balachandran et al.
Title : LAYERED STRUCTURE OF CU CONTAINING
SUPERCONDUCTOR AND AG OR AG ALLOYS WITH CU
Serial No. : 10/648,052
Filed : August 26, 2003
Docket No. : ANL 273
Date : August 17, 2005

MAIL STOP DD

Director for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicants undersigned attorneys, who prepared the above-identified application, are aware of the prior art references listed on the attached Form PTO-1449, which prior art references are relevant to said application. Copies of the prior art publications and enclosed.

The Commissioner is authorized to charge any additional fees or credit any overpayments incident to the filing of this Disclosure to Deposit Account No. 05-1060. A duplicate copy of this paper is enclosed.

Respectfully submitted,

08/23/2005 EAYALEW1 00000024 10648052

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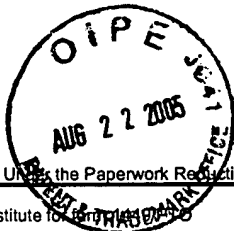
EMRICH & DITHMAR, LLC.

Attorneys for Applicants
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125 South Wacker Drive
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Date: 8/18/05

By: [Signature]

Harry M. Levy, Member
Reg. No. 24,248



PTO/SB/08B (07-05)

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Substitute for Form PTO/SB/08B

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

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Filing Date	August 26, 2003
First Named Inventor	U. Balachandran et al.
Art Unit	1754
Examiner Name	Colleen P. Cooke
Attorney Docket Number	ANL 273

Sheet 1 of 2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		B.W. Kang, A. Goyal et al., Comparative Study of Thickness Dependence of Critical Current Density ..., J. Mater. Res. Vol. 17, No. 7, July 2002	
		V.A. Maroni, K. Venkataraman et al., Nondestructive Analysis of Phase Evolution and Microstructure..., Physica C 382 (2002) 21-26	
		R.M. Baurceanu, V.A. Maroni et al., Investigation of a Multi-Set-Point First Heat Treatment..., Supercond. Sci. Technol. 15 (2002) 1167-1175	
		R.M. Baurceanu et al., Time Evolution of Phase Composition and Microstructure..., Supercond. Sci. Technol 15 (2002) 1160-1166	
		Y.L. Tang, D.J. Miller et al., Improved Microstructure in Ag/Bi-2223..., Supercond. Sci. Technol. 15 (2002) 1-7	
		J.H. Je, H. You et al., Detection of a Pd-Ni Interlayer at the Pd/Ni Interface..., Physica C 383 (2002) 241-246	
		U. Balachandran et al., Development of High-Temperature Superconductors... , Abstract of Invited Keynote Talk at Brazilian Physical Soc., Recife, Brazil, Nov. 5-8, 2002	
		U. Balachandran, B. Ma et al., Development of Coated Conductors by Inclined Substrate Deposition, Int. Sym. on Supercond., Japan 11/2002	
		S. Tsukui, R.E. Koritala et al., Oxygen and Cation Diffusion in YBCO Coated Conductors, Physica C 392-396 (2003) 841-846	
		B. Ma, M. Li et al., Pulsed Layer Deposition of YBCO Films on ISD MgO Buffered Metal Tapes, Supercond. Sci. Technol. 16 (2003) 464-472	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

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Examiner Name	Colleen P. Cooke
Attorney Docket Number	ANL 273

Sheet 2 of 2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		M. Li, B. Ma et al., Pulsed Laser Deposition of c-axis Untilted YBCO Films on c-axis tilted ISD MgO Buffered Metallic Substrate, Physica C 387 (2003) 373-381	
		B. Ma, M. Li et al., Inclined Substrate Pulsed Laser Deposition..., Abstract from American Ceramic Society 105th Ann. Meeting & Exposition, Nashville, Tenn., April 27-30, 2003	
		P.S. Shanakar et al. Residual Stress Measurements in YBCO-Coated Conductors, Abstract at 105th Amer. Ceramic Soc. Mtg. Tenn. April 2003	
		Y.X. Zhou, M. Mironova et al., New Seeding Method for Texturing Y-Ba-Cu-O Bulk, 105th Ann. Meeting Amer. Cera. Soc. TN, April 2003	
		R.M. Baurceanu, S.E. Dorris et al., Copper Additions to Silver Substrates for YBa ₂ Cu ₃ O ₇ ..., Abstract at 105th Mtg. Expo. Amer. Ceramic Soc. 2003	

Examiner
SignatureDate
Considered

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